



BOSCH

Invented for life

Quick Selection Guide Intrusion Detectors

North America

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Overview

Detection you can depend on

Whatever the property size you're securing, you need motion detectors that offer instant responses to intruders and the highest level of immunity from costly false alarms. Building upon the Bosch tradition of quality and innovation, our TriTech motion detectors feature dual motion technology to perfectly balance best-in-class catch performance while virtually eliminating false alarms.

Raising the bar for reliability and rapid detection

All Bosch motion detectors use high quality optics to achieve the best coverage pattern for an area and our unique First Step Processing¹ technology instantly responds to the first step of a person without producing false alarms from other sources. Bosch TriTech motion detectors raise the bar even further when it comes to superior catch performance and fewer false alarms under a variety of environmental conditions². These detectors make use of a combination of PIR and microwave Doppler radar detection technologies with advanced signal processing³.

Easy to install and built to last

All Bosch motion detectors are designed with unique features that speed up installation by as much as 45% compared to models from other manufacturers. These features also reduce installer errors that can lead to false alarms or missed detection, thus reducing service calls. Defective security products can be costly to repair or replace. That's why Bosch exceeds the most stringent requirements to ensure our products are recognized for their superior reliability and durability. Specifically, our high quality optics and electronics are built to last with a mean time of 100 years between failures.

Protect what matters most

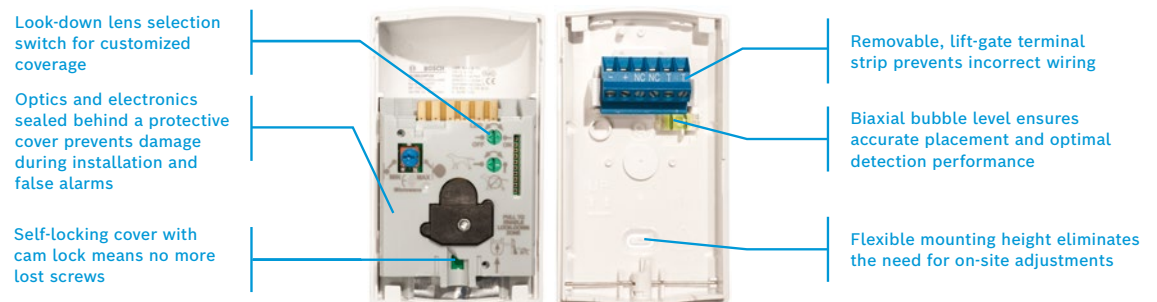
In addition to Bosch motion detectors, our wireless solutions and specialty detectors are also designed to help protect people and property 24/7:

- ▶ Our range of RADION detectors includes motion, smoke, carbon monoxide and heat detectors, as well as ZigBee certified sensors. With an exceptionally long battery life and an impressive wireless range and scale, these detectors ensure reliable performance for a variety of applications.
- ▶ Each seismic detector can monitor objects and surfaces, has a low-profile design, and can be installed effortlessly, even in tight spaces. Bosch seismic detectors are designed to monitor safes, night safes and automatic teller machines.
- ▶ The Bosch shock detector is designed for monitoring and detecting mechanical attacks. The self-learning mode uses the sensor's LED behavior as a guide for configuring the level of sensitivity.

- ▶ Request-to-exit detectors are specifically designed for Request-to-exit (REX) applications. They detect motion in the area they are covering and trigger an access control system or door control device.
- ▶ Glass break detectors use microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass. They can be used to detect the breakage of plate, tempered, laminated and wired glass types.




Our commitment

Our intrusion alarm systems together with Bosch access control and video security systems are key to offering complete security solutions that help our customers create a more secure world and deliver business intelligence that goes even beyond security.






To find out more go to www.boschsecurity.com

Residential and small commercial – Blue Line Gen2 Series

Material description		Standard PIR	Pet Friendly® PIR	Quad PIR
Commercial type number (CTN)		ISC-BPR2-W12	ISC-BPR2-WP12	ISC-BPQ2-W12
				
Overview	Application risk level	Low to moderate risk	Low to moderate risk	Moderate risk
	Environment*	Standard	Standard	Difficult
Specifications	Coverage/range	40 x 40 ft (12 x 12 m)	40 x 40 ft (12 x 12 m)	40 x 40 ft (12 x 12 m)
	Mounting height	7.5 to 9 ft (2.3 to 2.75 m)	7.5 to 9 ft (2.3 to 2.75 m)	7.5 to 9 ft (2.3 to 2.75 m)
	Operating temperature**	-20° to 130° F (-30° to 55° C)	-20° to 130° F (-30° to 55° C)	-20° to 130° F (-30° to 55° C)
	Operating voltage	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
	Current draw (typical)	10 mA	10 mA	10 mA
Features	First step processing	■	■	■
	Microwave noise adaptive processing	–	–	–
	Dynamic temperature compensation	■	■	■
	Wall-to-wall coverage	■	■	■
	Look-down zone	■	■	■
	Pet/small animal immunity	10 lb (4.5 kg)	45 lb (20 kg)	10 lb (4.5 kg)
	Alarm output	NC	NC	NC
	Alarm memory	–	–	–
	Anti-mask	–	–	–
	Tamper	Cover	Cover	Cover
	Sealed optical chamber	■	■	■
Ease of Installation***	No-adjust installation	■	■	■
	Enable/disable LED	■	■	■
	Enable/disable pet immunity	–	■	–
	Enable/disable look-down	■	■	■
	Microwave Doppler range adjustment	–	–	–
	Remote walk test	–	–	–
	Remote self test	–	–	–
Certifications		AFNOR, CCC, CE, EN50131-2-2 Grade 2, INCERT, UL	AFNOR, CCC, CE, EN50131-2-2 Grade 2, INCERT, UL	AFNOR, CCC, CE, EN50131-2-2 Grade 2, INCERT, UL




■ Available – Not available

Residential and small commercial – Blue Line Gen2 Series

Material description		Standard TriTech®	Pet Friendly® TriTech®	Pet Friendly® TriTech®
Commercial type number (CTN)		ISC-BDL2-W12x	ISC-BDL2-WP12x	ISC-BDL2-W6x
				
Overview	Application risk level	Low to moderate risk	Low to moderate risk	Low to moderate risk
	Environment*	Difficult	Difficult	Difficult
Specifications	Coverage/range	40 x 40 ft (12 x 12 m)	40 x 40 ft (12 x 12 m)	20 x 20 ft (6 x 6 m)
	Mounting height	7.5 to 9 ft (2.3 to 2.75 m)	7.5 to 9 ft (2.3 to 2.75 m)	7.5 to 9 ft (2.3 to 2.75 m)
	Operating temperature**	-20° to 130° F (-30° to 55° C)	-20° to 130° F (-30° to 55° C)	-20° to 130° F (-30° to 55° C)
	Operating voltage	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
	Current draw (typical)	10 mA	10 mA	10 mA
Features	First step processing	■	■	■
	Microwave noise adaptive processing	■	■	■
	Dynamic temperature compensation	■	■	■
	Wall-to-wall coverage	■	■	■
	Look-down zone	■	■	■
	Pet/small animal immunity	10 lb (4.5 kg)	100 lb (45 kg)	100 lb (45 kg)
	Alarm output	NC	NC	NC
	Alarm memory	–	–	–
	Anti-mask	–	–	–
	Tamper	Cover	Cover	Cover
	Sealed optical chamber	■	■	■
Ease of Installation***	No-adjust installation	■	■	■
	Enable/disable LED	■	■	■
	Enable/disable pet immunity	–	■	■
	Enable/disable look-down	–	–	–
	Microwave Doppler range adjustment	■	■	■
	Remote walk test	–	–	–
	Remote self test	–	–	–
Certifications		AFNOR, CCC, CE, EN50131-2-4 Grade 2, UL, FCC, IC	AFNOR, CCC, CE, EN50131-2-4 Grade 2, UL, FCC, IC	CCC, FCC, IC, UL




■ Available – Not available

Small to medium commercial – Commercial Series

Material description		Standard TriTech®	Anti-mask TriTech®	Anti-mask TriTech®
Commercial type number (CTN)		ISC-CDL1-W15x	ISC-CDL1-WA15x	ISC-CDL1-WA12x
				
Overview	Application risk level	Moderate risk	High risk	High risk
	Environment*	Difficult	Difficult	Difficult
Specifications	Coverage/range	50 x 50 ft (15 x 15 m)	50 x 50 ft (15 x 15 m)	40 x 40 ft (12 x 12 m)
	Mounting height	7.5 to 9 ft (2.3 to 2.75 m)	7.5 to 9 ft (2.3 to 2.75 m)	7.5 to 9 ft (2.3 to 2.75 m)
	Operating temperature**	-22° to 130° F (-30° to 55° C)	-22° to 130° F (-30° to 55° C)	-22° to 130° F (-30° to 55° C)
	Operating voltage	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
	Current draw (typical)	10 mA	15 mA	15 mA
Features	First step processing	■	■	■
	Microwave noise adaptive processing	■	■	■
	Range adaptive radar	–	–	–
	Active white light suppression	■	■	■
	Dynamic temperature compensation	■	■	■
	Look-down zone	■	■	■
	Pet/small animal immunity	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)
	Alarm output	NC	NC	NC
	Alarm memory	■	■	■
	Anti-mask	–	■	■
	Tamper	Cover	Cover + wall	Cover + wall
	Sealed optical chamber	■	■	■
Ease of Installation***	No-adjust installation	■	■	■
	Enable/disable look-down	■	■	■
	Enable/disable LED	■	■	■
	Microwave Doppler range adjustment	■	■	■
	Remote walk test	–	–	–
	Remote self test	–	–	–
Certifications		AFNOR, CCC, CE, EN50131-2-4 Grade 2, UL, FCC, IC	AFNOR, CCC, CE, EN50131-2-4 Grade 3, UL, FCC, IC	CCC, FCC, IC, UL




■ Available – Not available

Large commercial and high security – Professional Series

Material description		Standard PIR	Anti-mask PIR	Standard TriTech®	
Commercial type number (CTN)		ISC-PPR1-W16	ISC-PPR1-WA16x	ISC-PDL1-W18x	
					
Overview	Application risk level	Moderate risk	High risk	Moderate risk	
	Environment*	Standard	Standard	Difficult	
Specifications	Coverage/range	50 x 70 ft (16 x 21 m) 25 x 33 ft (8 x 10 m)	50 x 70 ft (16 x 21 m) 25 x 33 ft (8 x 10 m)	60 x 80 ft (18 x 25 m) 25 x 33 ft (8 x 10 m)	
	Mounting height	7 to 10 ft (2.1 to 3 m)	7 to 10 ft (2.1 to 3 m)	7 to 10 ft (2.1 to 3 m)	
	Operating temperature**	-20° to 130° F (-29° to 55° C)	-20° to 130° F (-29° to 55° C)	-20° to 130° F (-29° to 55° C)	
	Operating voltage	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC	
	Current draw (typical)	10 mA	18 mA	13 mA	
	Features	Sensor Data Fusion	■	■	■
Microwave noise adaptive processing		–	–	■	
Range adaptive radar		–	–	■	
Active white light supression		■	■	■	
Dynamic temperature compensation		■	■	■	
Look-down zone		■	■	■	
Pet/small animal immunity		10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)	
Alarm output		NC	NC	NC	
Alarm memory		■	■	■	
Anti-mask		–	■	–	
Tamper		Cover + wall	Cover + wall	Cover + wall	
Sealed optical chamber		■	■	■	
Ease of Installation***		No-adjust installation	■	■	■
		Enable/disable look-down	■	■	■
	Long/short select range	■	■	■	
	Microwave Doppler range adjustment	–	–	■	
	Remote walk test	■	■	■	
	Remote self test	■	■	■	
Certifications		AFNOR, CCC, CE, EN50131-2-2 Grade 2, FCC, IC, INCERT, UL	CCC, FCC, IC, UL	CCC, FCC, IC, UL	




■ Available – Not available

Large commercial and high security – Professional Series

Material description		Anti-mask TriTech®	Curtain TriTech®	Anti-mask Curtain TriTech®
Commercial type number (CTN)		ISC-PDL1-WA18x	ISC-PDL1-WC30x	ISC-PDL1-WAC30x
				
Overview	Application risk level	High risk	Moderate risk	High risk
	Environment*	Difficult	Difficult	Difficult
Specifications	Coverage/range	60 x 80 ft (18 x 25 m) 25 x 33 ft (8 x 10 m)	100 x 8.5 ft (30 x 2.6 m) 25 x 3.3 ft (8 x 1 m)	100 x 8.5 ft (30 x 2.6 m) 25 x 3.3 ft (8 x 1 m)
	Mounting height	7 to 10 ft (2.1 to 3 m)	7 to 10 ft (2.1 to 3 m)	7 to 10 ft (2.1 to 3 m)
	Operating temperature**	-20° to 130° F (-29° to 55° C)	-20° to 130° F (-29° to 55° C)	-20° to 130° F (-29° to 55° C)
	Operating voltage	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
	Current draw (typical)	18 mA	18 mA	18 mA
Features	Sensor Data Fusion	■	■	■
	Microwave noise adaptive processing	■	■	■
	Range adaptive radar	■	■	■
	Active white light supression	■	■	■
	Dynamic temperature compensation	■	■	■
	Look-down zone	■	■	■
	Pet/small animal immunity	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)
	Alarm output	NC	NC	NC
	Alarm memory	■	■	■
	Anti-mask	■	–	■
	Tamper	Cover + wall	Cover + wall	Cover + wall
	Sealed optical chamber	■	■	■
	Ease of Installation***	No-adjust installation	■	■
Enable/disable look-down		■	■	■
Long/short select range		■	–	–
Microwave Doppler range adjustment		■	■	■
Remote walk test		■	■	■
	Remote self test	■	■	■
Certifications	CCC, FCC, IC, UL	CCC, FCC, IC, UL	CCC, FCC, IC, UL	




■ Available – Not available

Ceiling Mount

Material description		Low-profile PIR	High-performance PIR	High-performance TriTech®
Commercial type number (CTN)		DS936	DS939	DS9370
				
Overview	Application risk level	Low to moderate risk	Moderate risk	Moderate risk
	Environment*	Standard	Standard	Difficult
Specifications	Optics	Fresnel	Triple 35-zone Fresnel	Triple 35-zone Fresnel
	Coverage/range	24 ft (7 m) diameter	46 ft (14 m) diameter	46 ft (14 m) diameter
	Mounting height	7 to 12 ft (2.1 to 3.6 m)	8 to up to 20 ft (2.4 to 6.1 m)	8 to up to 20 ft (2.4 to 6.1 m)
	Operating temperature**	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)
	Operating voltage	10 to 15 VDC	9 to 15 VDC	9 to 15 VDC
	Current draw (typical)	20 mA	12 mA	19 mA
	Features	First Step Processing	–	■
Motion Analyzer II signal processing		–	–	–
PIR supervision		–	–	–
Microwave supervision		–	–	■
Microwave noise adaptive processing		–	–	■
Dynamic temperature compensation		–	■	■
Pet/small immunity		–	–	–
Pattern masking		■	■	■
Alarm output		NC	NC/NO	NC/NO
Alarm memory		–	■	■
Tamper		Cover	Cover + wall	Cover + wall
Sealed optical chamber (insect/dust)		■	■	■
Ease of Installation***		Interchangeable optics	–	–
	Switchable coverage patterns	–	■	■
	Enable/disable LED	■	■	■
	PIR sensitivity adjustment	■	■	■
	Microwave Doppler range adjustment	–	–	■
	Flexible mounting height	■	■	■
	Remote walk test	–	■	■
	Remote self test	–	–	–
Certifications	CCC, CE, UL	AFNOR, CCC, CE, EN50131-2-2 Grade 2, INCERT, UL	CCC, FCC, IC, UL	






■ Available – Not available

Specialty – Seismic/Shock

Material description		Standard Seismic	High-performance Seismic	Shock
Commercial type number (CTN)		ISN-SM-50	ISN-SM-80	ISC-SK10
				
Overview	Type	Thermal, Mechanical, Explosive, Water Attack Detection	Thermal, Mechanical, Explosive, Water Attack Detection	Mechanical Attack Detection
	Application type	Small to large commercial	Small to large commercial	Residential to large commercial
	Application risk level	High risk	High risk	High risk
	Environment	Vault walls and doors, safes, ATMs, strong rooms, vending machines	Vault walls and doors, safes, ATMs, strong rooms, vending machines	Vault walls and doors, safes, ATMs, strong rooms, vending machines
Specifications	Coverage/range	50 m ²	80 m ²	1.5 to 3.5 m radius
	Operating temperature**	-40° to 158° F (-40° to 70° C)	-40° to 158° F (-40° to 70° C)	-14° to 131° F (-10° to 55° C)
	Operating voltage	8 to 16 VDC	8 to 16 VDC	9 to 15 VDC
	Current draw (typical)	3 mA	3 mA	8.5 mA
	Environmental rating	IP43	IP43	IP43
Features	Anti-drilling shield	■	■	–
	Temperature supervision	■	■	–
	Voltage monitoring	■	■	–
	Automatic self test	■	■	–
	Local event memory	–	■	–
	Alarm output	NC solid state relays	NC solid state relays	NC solid state relays
	LED	–	–	Green, red
	Tamper	Cover + wall	Cover + wall	Cover
Ease of installation	Intelligent installation mode	–	–	■
	Mounting and function test	■	■	■
	Sensitivity adjustment	■	■	■
	Mounting location	Steel, concrete	Steel, concrete	Any
	Installation accessories	Anti-drill foil (ISN-GMX-D7), Floor socket (ISN-GMX-B0), Mounting plate (ISN-GMX-P0), Swivel plate (ISN-GMX-P3S), Test transmitter (ISN-GMX-S1), Wall mounting kit (ISN-GMX-W0)	Anti-drill foil (ISN-GMX-D7), Floor socket (ISN-GMX-B0), Mounting plate (ISN-GMX-P0), Test transmitter (ISN-GMX-S1), Wall mounting kit (ISN-GMX-W0)	–
	Software options	ISN-SMS-W7 SensTool PC Software	ISN-SMS-W7 SensTool PC Software	–
Certifications	Approvals/listings	CCC, CE, NCP, VdS, UL	CCC, CE, NCP, VdS, UL	CCC, CE





■ Available – Not available

Specialty – Glass Break

Material description		Standard	Standard	Standard	Standard	Combo Magnetic Contact
Commercial type number (CTN)		DS1101i	DS1108i	DS1102i	DS1103i	DS1109i
						
Overview	Application type	Residential to large commercial	Residential to large commercial	Residential to large commercial	Residential to large commercial	Residential to large commercial
	Application risk level	Low to moderate risk	Low to moderate risk	Low to moderate risk	Low to moderate risk	Low to moderate risk
	Environment	Standard	Standard	Standard	Standard	Standard
Specifications	Coverage/range	25 ft (7.6 m) diameter	25 ft (7.6 m) diameter	25 ft (7.6 m) diameter	25 ft (7.6 m) diameter	10 ft (3 m) diameter
	Operating temperature**	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)
	Operating voltage	6 to 15 VDC	9 to 15 VDC	6 to 15 VDC	9 to 15 VDC	6 to 15 VDC
	Current draw (typical)	23 mA	21 mA	23 mA	21 mA	21 mA
Features	Sound Analysis Technology (SAT) processing	NC/NO	NC	NC/NO	NC	NC
	Alarm output	■	■	■	■	■
	LED indicator	-	-	-	-	-
	Tamper	■	■	■	-	■
Ease of installation	Mounting location	Wall, ceiling	Wall, ceiling	Wall, ceiling	Wall, ceiling (flush)	Door, window frame
	Installation accessories	Glass Break Tester (DS1110i)	Glass Break Tester (DS1110i)	Glass Break Tester (DS1110i)	Glass Break Tester (DS1110i)	Glass Break Tester (DS1110i)
Certifications	CCC, CE, UL	CCC, CE, UL	CCC, CE, UL	CCC, CE, UL	CCC, CE, UL	




■ Available – Not available

Specialty – Request-to-Exit

Material description		Standard Request-to-Exit PIR		High-performance Request-to-Exit PIR	
Commercial type number (CTN)		DS150i	DS151i	DS160	DS161
					
Specifications	Coverage/range	8 x 10 ft (2.4 x 3 m)	8 x 10 ft (2.4 x 3 m)	8 x 10 ft (2.4 x 3 m)	8 x 10 ft (2.4 x 3 m)
	Mounting height	7 to 10 ft (2.1 to 3 m)	7 to 10 ft (2.1 to 3 m)	7.5 to 15 ft (2.3 to 4.6 m)	7.5 to 15 ft (2.3 to 4.6 m)
	Operating temperature**	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)
	Operating voltage	12 VAC or VDC; 24 VAC or VDC	12 VAC or VDC; 24 VAC or VDC	12 VAC or VDC; 30 VAC or VDC	12 VAC or VDC; 30 VAC or VDC
	Current draw (typical)	26 mA nominal	26 mA nominal	8 mA nominal	8 mA nominal
Features	Door monitor with sounder	–	–	■	■
	Keycard reader input	–	–	■	■
	Sequential logic input	–	–	■	■
	Relay fail-safe/fail-secure	■	■	■	■
	Relay settable select	■	■	■	■
	Relay latch time adjustment	0.25 to 60 seconds	0.25 to 60 seconds	0.5 to 64 seconds	0.5 to 64 seconds
	Pattern masking	■	■	■	■
	Alarm output/memory	–/■	–/■	–/■	–/■
	Tamper	–	–	■	■
	Pointable optics	Vertical adjustment	Vertical adjustment	Vertical adjustment	Vertical adjustment
	Switchable relay mode	■	■	■	■
	Switchable timer reset mode	■	■	■	■
	Adjustable sounder volume	–	–	■	■
	PIR sensitivity adjustment	■	■	■	■
	Enable/disable LED	–	–	■	■
Flexible mounting height	■	■	■	■	
Certifications		UL, CE	UL, CE	UL, CE	UL, CE

■ Available – Not available

Wireless – RADION****

Material description		Standard PIR	Curtain PIR	Standard TriTech®
Commercial type number (CTN)		RFPR-12	RFPR-C12	RFDL-11
				
Overview	Application risk level	Low to moderate risk	Low to moderate risk	Low to moderate risk
	Environment*	Standard	Standard	Difficult
Specifications	Frequency	433.42 MHz	433.42 MHz	433.42 MHz
	Coverage/range	40 x 40 ft (12 x 12 m)	40 x 5 ft (12 x 1.5 m)	35 x 35 ft (11 x 11 m)
	Mounting height	7 to 9 ft (2.1 to 2.75 m)	7 to 8.5 ft (2.1 to 2.6 m)	6.5 to 8 ft (2.0 to 2.4 m)
	Operating temperature**	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)
	Operating voltage	3 VDC	3 VDC	6 VDC
	Power source	One CR123A Lithium battery	One CR123A Lithium battery	Four AA Alkaline batteries
	Battery life	Up to 5 years	Up to 5 years	Up to 5 years
	Features	Motion Analyzer II signal processing	■	■
Microwave noise adaptive processing		–	–	■
Dynamic temperature compensation		■	■	■
Wall-to-wall coverage		■	■	■
Look-down zone		■	■	■
Pet/small animal immunity		30 lb (13 kg)	30 lb (13 kg)	100 lb (45 kg)
Anti-mask		–	–	–
Tamper		Cover + wall	Cover + wall	Cover + wall
Sealed optical chamber		■	■	■
Ease of installation***		No adjust installation	■	■
	Enable/disable LED	–	–	–
	Enable/disable pet immunity	–	–	■
	Enable/disable look-down	■	■	■
	Switchable detection patterns	–	–	–
	Microwave Doppler range adjustment	–	–	■
Certifications	ANATEL, AFNOR, CCC, CE, EN50131-2-2 Grade 2, FCC, IC, INCERT, RCM, UL	ANATEL, AFNOR, CCC, CE, EN50131-2-2 Grade 2, FCC, IC, INCERT, RCM, UL	ANATEL, CCC, FCC, IC, RCM, UL	






■ Available – Not available

Wireless – RADION****

Material description		Surface Mount Contact	Recessed Mount Contact	Universal Transmitter
Commercial type number (CTN)		RFDW-SM	RFDW-RM	RFUN
				
Specifications	Frequency	433.42 MHz	433.42 MHz	433.42 MHz
	Coverage/range	–	–	–
	Reed switch gap width	< 0.75 in (19 mm)	< 0.75 in (19 mm)	< 0.75 in (19 mm)
	Operating temperature*	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)
	Operating voltage	1.5 VDC	1.5 VDC	1.5 VDC
	Power source	One AAA Lithium battery	One AAA Lithium battery	One CR123A Lithium battery
	Battery life	Up to 5 years	Up to 5 years	Up to 5 years
Features	Tamper	■	■	■
	LED indicator	–	–	–
Certifications		ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL	ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL	ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL

■ Available – Not available

Wireless – RADION****

Material description	Glass Break	Bill Trap	Keyfob	Panic Button	Fixed Position Panic Button
Commercial type number (CTN)	RFGB	RFBT	RFKF-FBS, RFKF-TBS	RFPB-SB, RFPB-TB	RFPB-FP-A
					
Specifications	Frequency	433.42 MHz	433.42 MHz	433.42 MHz	433.42 MHz
	Coverage/range	20 ft (6 m) diameter	–	–	–
	Mounting gap	–	–	–	–
	Operating temperature**	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)	14° to 130° F (-10° to 55° C)
	Operating voltage	3 VDC	1.5 VDC	3 VDC	3 VDC
	Power source	One CR123A Lithium battery	One AAA Lithium battery	One CR2032 Lithium battery	One CR123A Lithium battery
	Battery life	Up to 5 years	Up to 5 years	Up to 5 years	Up to 5 years
Features	Tamper	■	■	–	■
	LED indicator	■	■	■	–
	Synchronized encryption	–	–	■ (FBS, TBS models)	–
Certifications		ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL	ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL	ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL	ANATEL, CE, CSFM, FCC, IC, RCM, UL

■ Available – Not available

Wireless – ZigBee

Material description

Commercial type number (CTN)

Standard PIR

RFPR-ZB



Standard TriTech®

RFDL-ZB



Multi-sensor

RFMS-ZBMS-3



Overview	Application risk level	Low to moderate risk	Low to moderate risk
	Environment*	Standard	Difficult
Specifications	Frequency	2.4 GHz	2.4 GHz
Features	Coverage/range	40 x 40 ft (12 x 12 m)	40 x 40 ft (12 x 12 m)
	Mounting height	7.5 to 9 ft (2.3 to 2.7 m)	7.5 to 9 ft (2.3 to 2.7 m)
	Operating temperature**	14° to 131° F (-10° to 55° C)	14° to 131° F (-10° to 55° C)
	Operating voltage	3 VDC	3 VDC
	Power source	CR123A Lithium battery	CR123A Lithium battery
	Battery life	Up to 6 years (one battery) Up to 10 years (two batteries)	Up to 3 years (one battery) Up to 6 years (two batteries)
	First Step Processing	■	■
	Microwave noise adaptive processing	–	■
	Dynamic temperature compensation	■	■
	Wall-to-wall coverage	■	■
	Look-down zone	■	■
	Pet/small animal immunity	45 lb (20 kg)	100 lb (45 kg)
	Anti-mask	–	–
	Tamper	Cover + wall	Cover + wall
	Sealed optical chamber	■	■
Encryption	128 bit AES	128 bit AES	
Ease of installation***	No-adjust installation	■	■
	Enable/disable LED	■	■
	Enable/disable pet immunity	■	■
	Enable/disable look-down	■	■
	Microwave Doppler range adjustment	–	■
Certifications		FCC, IC, cETLus, ZigBee	FCC, IC, cETLus, ZigBee

■ Available – Not available

Specifications	Frequency	2.4 GHz
	Sensor gap width	≥ 1.3 in (33 mm)
	Operating temperature**	14° to 131° F (-10° to 55° C)
	Operating voltage	3 VDC
	Power source	One CR2 Lithium battery
Features	Battery life	Up to 5 years
	Hall effect contact sensor	■
	Water detection	■
	Tilt detection	■
	Low temperature alarm	■
	Tamper	■
	LED indicator	■
	Encryption	128 bit AES
Certifications		FCC, IC, cETLus, ZigBee

Technical Notes

* Difficult environments include rooms with potential false alarm sources, such as: air conditioning vents, strong drafts of cold or warm air, slow moving objects such as curtains, plants, or signs hanging from the ceiling, a fan that could be running when the system is activated, under floor heating, room temperatures exceeding 86°F (30°C), a detector that could be exposed to bright white light (car headlights, floodlights, direct sunlight, etc.)

** For UL installations the operating range is 32° to 120° F (0° to 49° C), indoor use.

*** Professional Series, Commercial Series, Blue Line Gen2 Series, RADION and ZigBee models feature a two-piece design, self-locking enclosure, interchangeable mounting base, integrated bubble level, and removable lift-gate terminal strips.

**** Wireless peripherals require a compatible receiver. B810 RADION receiver is compatible with SDI2 bus panels (B Series and G Series); RFRC–OPT is compatible with Option bus panels; RFRC–STR is compatible with Streamline bus panels.

¹ First Step Processing technology delivers an instant response to the first step of a person without producing false alarms from other sources. When someone walks across the detector's field of view, the sensor detects a sharp increase in infrared energy and triggers an alarm.

² Dynamic temperature compensation automatically adjusts the detector's sensitivity so that it can identify a person at virtually any temperature. If the sun has been shining through a window all day raising the temperature of the room to 37°C and someone enters the room, the sensor will compensate to detect this change and an alarm is triggered.

³ Microwave Noise Adaptive Processing differentiates humans from repetitive false alarm sources such as vibrating machinery, air conditioning and heating systems, as well as ceiling fans. Featured in our TriTech detectors, it adjusts for background disturbances, further reducing false alarms without sacrificing the ability to detect an intruder.

A Tradition of Quality and Innovation

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